

OK to inspect per  
Diane Spiner 3/14/85  
R5-8505-04

RCRA IL-0406-07  
Rum  
TSD  
PAS-1  
Nex-1  
D. 3/1/85  
3-14-85

EPA POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT				I. IDENTIFICATION	
				01 STATE IL	02 SITE NUMBER IL0006272629
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site) Amoco Oil Co - Main Office - WWTP			02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 400 S Main St.		
03 CITY Wood River			04 STATE IL	05 ZIP CODE 62095	06 COUNTY Madison
07 COUNTY CODE 119			08 CONG DIST 23		
09 COORDINATES LATITUDE 38 50 55.1			LONGITUDE 090 06 00.9		
10 DIRECTIONS TO SITE (Starting from nearest public road) Between Rt 3 and Con Rail tracks			IL Quad Map 221 d		
III. RESPONSIBLE PARTIES					
01 OWNER (If known) Amoco Oil Corp *			02 STREET (Business, mailing, residential) 200 E. Randolph		
03 CITY Chicago			04 STATE IL	05 ZIP CODE 60601	06 TELEPHONE NUMBER (312) 856-5111
07 OPERATOR (If known and different from owner)			08 STREET (Business, mailing, residential)		
09 CITY			10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER 618 251-2200
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: 11/18/80 MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ MONTH DAY YEAR <input checked="" type="checkbox"/> C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 5/1/81 MONTH DAY YEAR <input type="checkbox"/> NO 6/26/84			BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____		
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN			03 YEARS OF OPERATION BEGINNING YEAR 1977 ENDING YEAR _____ <input type="checkbox"/> UNKNOWN		
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED heavy metals (toxic/persistent) Oily waste (soluble/flammable) sludges (toxic/persistent)					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION groundwater (population/environment) Vapor release (population/environment)					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one) If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents <input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT Ed. J. Sullivan		02 OF (Agency/Organization) Amoco		03 TELEPHONE NUMBER (312) 856-5858	
04 PERSON RESPONSIBLE FOR ASSESSMENT Joe Murphy		05 AGENCY IEPA	06 ORGANIZATION HSCS	07 TELEPHONE NUMBER (217) 782-6760	08 DATE MONTH DAY YEAR

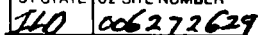
EPA FORM 2070-12 (7-81)

EPA Region 5 Records Ctr.



360676

3/4/85



I. HIGHLY VOLATILE  
☒ J. EXPLOSIVE  
 K. REACTIVE  
 L. INCOMPATIBLE  
 M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
110 006272629

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 77,200 04 NARRATIVE DESCRIPTION

Tests show HC down to 50'

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED UNK 04 NARRATIVE DESCRIPTION

IN flood plain of Mississippi River,

01 ☒ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 80,000 04 NARRATIVE DESCRIPTION

VOC Emissions from storage tanks = 2,965 T/Y.

01 ☒ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 49,300 04 NARRATIVE DESCRIPTION

Large quantities of petroleum products stored & handled.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 29,700 04 NARRATIVE DESCRIPTION

Large quantities of petroleum products stored & handled.

01 ☒ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED 20 04 NARRATIVE DESCRIPTION  
(Acres)

portion of tank farm used as past disposal area,  
amount and type unknown.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 77,200 04 NARRATIVE DESCRIPTION

H.C. throughout all test wells. local water from  
drift wells.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED 3 04 NARRATIVE DESCRIPTION

WWTP workers.  
Does not include workers involved with tank farm,

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED 80,000 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL ILD006272629

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES  
(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 80,000

IV. COMMENTS

Investigation should include main plant (ILD980700961) and Riverfront (ILD980503221) which are contiguous.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Division files - Air, water, land, PWS  
Phone calls - Ed Sullivan AMOCO  
Bill Watkins CITY OF Wood River

## EXECUTIVE SUMMARY

The Amoco Oil Co. Main Office WWTP (ILD006272629) consists of a 3 storey office building, a tank farm and a waste water treatment plant (WWTP). It is bordered on the east by the Con Rail tracks which separate it from Amoco Main Plant (ILD98070967), on the west by Rt. 3 and on the southwest by the Amoco Riverfront site (ILD980503221).

The main office building was donated by Amoco to Madison County and is now in use by the county. About 1,000 yards south of the main office building is a WWTP which was constructed in 1976. Prior to that time, waste water treatment consisted of lagoons at the Riverfront site. The new plant includes a treatment sequence of clarification, filtration, activated sludge, clarification and final filter. It also includes an aerobic digester and belt filters for dewatering waste solids. The plant served the combined petroleum refining and additive manufacturing operations until the refinery was closed in 1981. It still serves the additive operations. Hazardous waste management at the site consists of storage and dewatering of DAF float and sludge. Separated water is recycled and solids transported off-site to a hazardous waste landfill.

The WWTP is being donated by Amoco to the City of Wood River. The IEPA-DWPC Grants Administration program is spending about three million dollars on the project. The City will not take legal possession until all points of an agreement between the City and Amoco are completed. [On page 17 of the agreement is a condition stating that prior to transfer, Amoco will clean and lower its storage lagoons, located west of the flood control dike and adjacent to the Mississippi River, to a level such that the City will have available at least 150 million gallons of storage space] Those lagoons are part of the Riverfront site for which a closure plan is under review by the IEPA-DLPC Permit Section. It is unknown whether the plan will meet RCRA and/or CERCLA standards. Amoco's NPDES permit expired in 1980. They are operating under the conditions of the expired permit until the renewal can be processed reflecting the change of ownership and the closing of the refinery.

Between the main office building and the WWTP is a large tank farm still in use by Amoco in connection with their barge loading operations. Average VOC emissions from storage and handling of petroleum products are 2,965 tons/year making it a Major Source of air pollution. A diagram included with the Part A application for this site indicates 3 areas within the tank farm designated as past disposal areas. The only type of waste specified is leaded tank bottoms.

A closure plan for the WWTP was approved June 1984. An amendment to the application for the closure plan dated April 19, 1984 states that they have not addressed the past disposal areas because they were inactive by the time RCRA became effective in 1980. Amoco further stated that those sites were reported as Superfund sites in 1981 and they consider them as separate issues from the WWTP. [No. 103-C was found with this ILD number, but Amoco may have thought those sites were included with information submitted for the Main Plant or Riverfront site. It is difficult to separate information relating to the discrete areas. Both the tank farm and past disposal areas should be investigated during site inspection.]

Page 2

A study by the State Geological Survey concludes that the probability of groundwater contamination in the area is high. A hydrogeologic study submitted with the January 13, 1985 closure plan for the Riverfront site states that groundwater is recharged by the Mississippi River. Contamination of ground and surface water is very likely from the adjacent Main and Riverfront sites. Therefore, it is recommended that this site also receive a high priority for inspection, since it is a contiguous part of the area where large quantities of refinery waste were handled and stored and may contain hazardous wastes in the past disposal areas or in tanks on the tank farm.

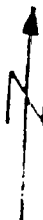
SM/rmi/0494E/1-2

Amoco  
Tank Farm

MAIN  
OFFICE

GATE

Building donated to Mahan Co,



LEADED  
TANK BOTTOMS

PAST DISPOSAL  
AREAS

289

288

287

LEADED  
GASOLINE  
TANK

PROBABLE PAST  
DISPOSAL AREA

FENCE

FENCE

AIR  
FLOTA-  
TION

CLARIFIER

AERATION  
TANK

DIGESTER

DAF FLOAT  
STORAGE

OFFICE

FILTER  
BACKWASH

GATE

FENCE

DAF FLOAT  
DEWATERING  
AND STORAGE

PROPERTY LINE  
150'

WASTEWATER  
TREATING to  
W.W.T.  
belong to CTH  
of Wood River

RECEIVED

MAR 02 1984  
E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

SCALE: 1" = 200'

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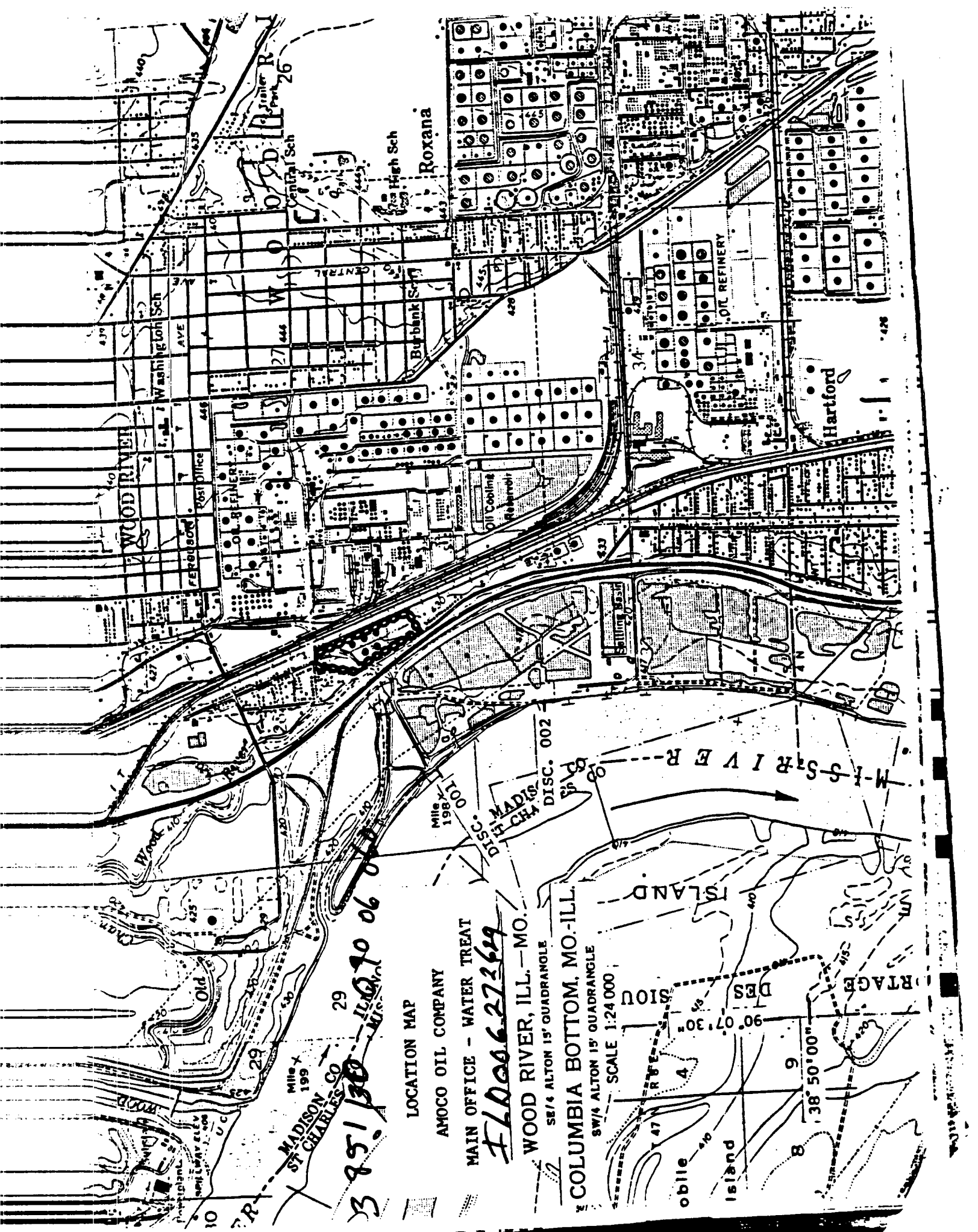
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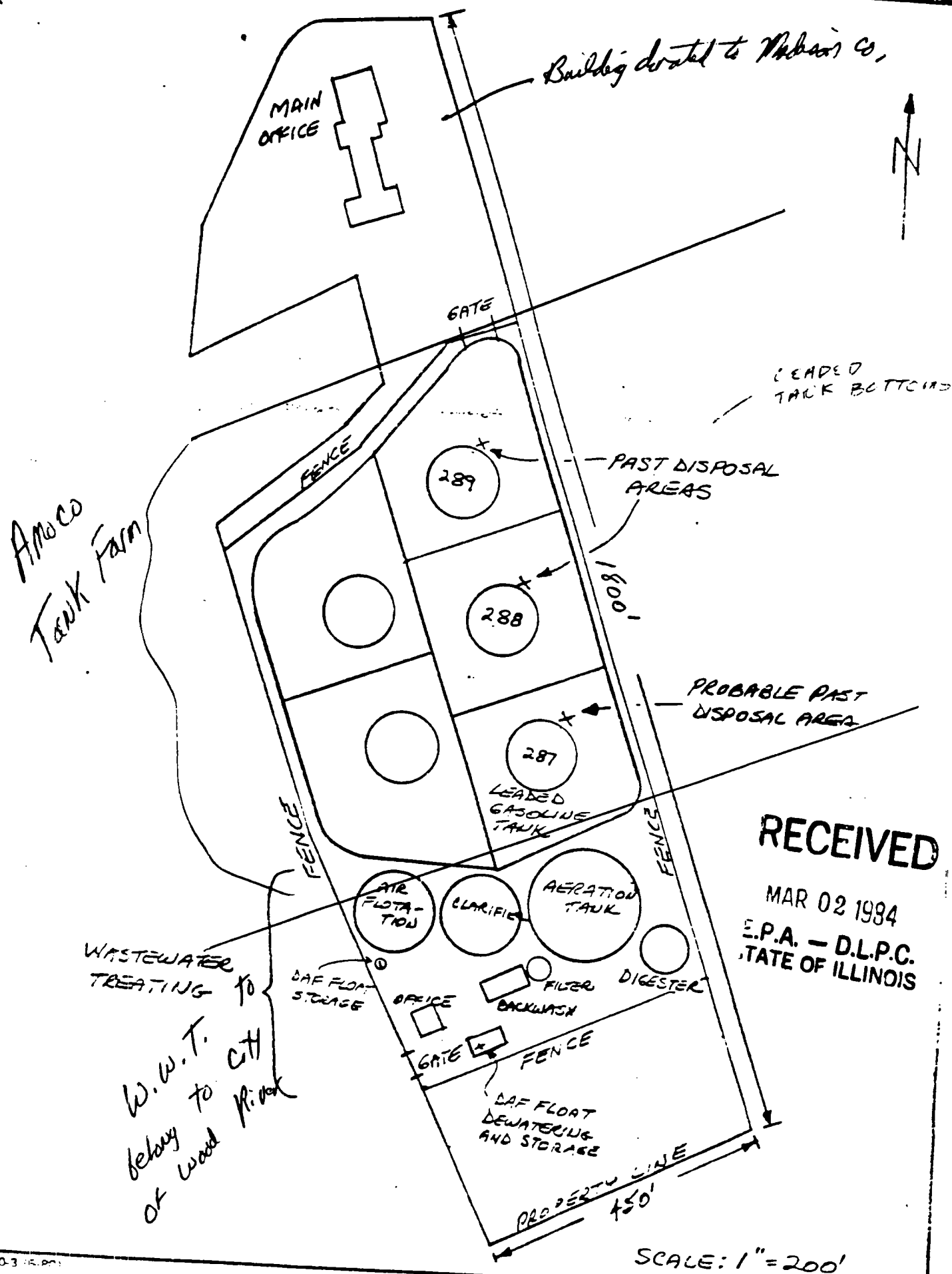


Page 2

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SM/rmi/0494E/1-2





MAR 02 1984

What is relationship between: Amoco Oil Riverfront  
Amoco Oil Refinery  
Amoco Oil Main Office WWTP.

1. Amoco Oil Co. Main Office WWTP  
3-story bldg } consists of  
tank farm }  
WWTP

A. Prior to 1976 - WWT consisted of lagoons at the Riverfront site (SW of Main office site)

Present WWTP. clarification, filtration, activated sludge, clarification + final filter. Also includes aerobic digester + belt filters for dewatering

This <sup>WWTP</sup> plant served both Refining + Additive Manufacturing until ~~the~~ Refining closed in 1981. Separated water is recycled while sludges are disposed of at a hazardous waste landfill.

- NPDES Permit applied in 1980?
- Riverfront site awaiting approval of Closure plan by IEPA-DLPC. Unknown whether plan meets RCRA.

B. Tank Farm - still in operation for barge loading  
- There are 3 areas within tank farm that are listed as past waste disposal areas (leaded tank bottoms) from RCRA Part A

C. Who is using WWTP? City or Amoco? What are done with sludges? Discharges?

Major Area of Concern: Tank Farm / Past Disposal Area.  
Groundwater Cont. likely

WWTP - donated to Wood River (being donated)  
Main Office - " " Madison Co.  
Tank Farm - still in use.

The wastewater treatment plant has not been used in conjunction with hazardous waste storage / treatment since (~ mid 1981).

Plant presently going through closure - closure plan being amended by Mr. Ed. Sullivan.

No hazardous wastes have been generated since 1981.

- WWTP filed RCRA Part A because it generated, stored, and treated (DAF) float (DAF = Dissolved Air Flotation)

NPDES - IL0000035

\* What about past area where wastes were dumped between Levee + Mississippi River. (per DLPC complaint C-79-69-5) (Riverfront site?)

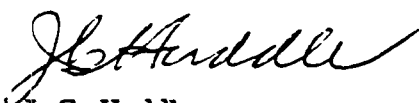
From Letter to DLPC/IEPA from J.G. Huddle, Amoco:

We have not addressed the past disposal areas in the adjoining tank field in this closure plan because those sites, known and probable, were reported as Superfund sites in 1981 as required by CERCLA. We feel that the investigation, evaluation, and remedial action, if any, for those sites are separate issues that are not properly part of a RCRA closure plan. These sites were never regulated under RCRA because they were inactive when RCRA regulations became effective on November 19, 1980. We will be pleased to meet with you at your convenience to develop a program to evaluate these sites and to devise a remedial action plan if one is required.

It may be of value to know that, although Amoco has donated the main office building to a nonprofit Madison County organization and has donated the waste water treating plant to the city of Wood River, Amoco will retain ownership of the tank field where the past disposal sites are located. The city, incidentally, has not yet assumed operation of the waste water treating plant.

Please let us know if you require further information.

Yours truly,



J. G. Huddle  
Director, Environmental Control and Planning  
Mail Code 1203

JGH/cad

Even though Amoco has donated WWTP, they will continue to send wastewater there, but will pay for use.

We are not concerned with any RCRA closure areas - only with past disposal areas - CERCLA.